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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/152,008	09/11/1998	SIG H. BADT JR.	ALCA1100-6	8622	
25537 7	7590 07/31/2003				
WORLDCOM, INC.			EXAMINER		
1133 19TH ST			HARPER, I	HARPER, KEVIN C	
WASHINGTO	N, DC 20036		ART UNIT	PAPER NUMBER	
			2666	7/	
			DATE MAILED: 07/31/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	((
		09/152,008		BADT, SIG H.				
r r	Office Action Summary	Examiner		Art Unit	<u> </u>			
		Kevin C. Harper		2666				
 Period for	The MAILING DATE of this communication app	pears on the cover	sheet with the c	orrespondence a	dress			
	RTENED STATUTORY PERIOD FOR REPL'	V IS SET TO EVO	DE 2 MANTU/	S) EDOM				
THE MA - Extension after SD - If the pe - If NO pe - Failure to - Any repl	AILING DATE OF THIS COMMUNICATION. ons of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period voto reply within the set or extended period for reply will, by statute by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howev y within the statutory minin vill apply and will expire SI , cause the application to I	er, may a reply be tim num of thirty (30) days X (6) MONTHS from Decome ABANDONE	nely filed s will be considered time the mailing date of this of (35 U.S.C. § 133).				
	Responsive to communication(s) filed on 12 M	May 2003						
<u> </u>		is action is non-fin	al					
· —	Since this application is in condition for allowa			rosecution as to t	ne merits is			
(closed in accordance with the practice under not Claims				ic ments is			
4)⊠ C	claim(s) 1,3-6 and 8-18 is/are pending in the	application.						
48	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ C	laim(s) <u>1,3-6 and 8-10</u> is/are allowed.							
6)⊠ C	claim(s) <u>11-18</u> is/are rejected.							
7)□ C	claim(s) is/are objected to.							
	claim(s) are subject to restriction and/o	r election requirem	ent.					
Applicatio	n Papers							
	ne specification is objected to by the Examine							
	ne drawing(s) filed on is/are: a)□ accep		_					
	Applicant may not request that any objection to the			` '				
	e proposed drawing correction filed on		, , , , , ,	ved by the Examir	ner.			
	If approved, corrected drawings are required in rep		on.					
	e oath or declaration is objected to by the Ex	aminer.						
	der 35 U.S.C. §§ 119 and 120							
	Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
	All b) Some * c) None of:							
	Certified copies of the priority documents							
	Certified copies of the priority documents		• •					
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
	4) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) [a) ☐ The translation of the foreign language provisional application has been received. 5)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s		-						
2) 🔲 Notice o	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) tion Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 1		(PTO-413) Paper No Patent Application (PT				
6. Patent and Trade ΓΟ-326 (Rev. (tion Summary		Part of Paper No. 26				

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Response to Arguments

1. Applicant argued that Brady does not disclose transmitting topology information.

However, in Figure 5, step 24, information in an inherently stored topology table is transmitted to neighboring nodes (col. 4, lines 18-21).

2. Applicant argued against examiner's taking of Official Notice that a routing table contains port numbers to identify links. In response, Examiner notes that Suzuki (US 5,796,736; Figure 3 and 11) discloses routing tables containing port numbers to identify link connections.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 11-13 and 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shah et al. (US 5,646,936) in view of Brady (US 6,041,049)..

3. Regarding claims 11-12 and 15-16, Shah discloses a method of network restoration comprising mapping a topology of spare capacity (Figure 5; col. 5, lines 66-67) of several spare links interconnecting several nodes (col. 6, lines 16-20). However, Shah does not disclose transmitting the information to an origin node. Brady discloses transmitting topology information to an origin node (Figure 1; Figure 5, step 24; col. 2, lines 48-67). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to exchange spare capacity information in the invention of Shah in order to provide each node in the network with the available spare capacity of the network. Further, Shah in view of Brady does not disclose identifying port numbers. One skilled in the art would recognize that a cross-connect switch typically has port numbers identifying connections to different working paths and spare

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paths (Shah, col. 5, lines 18-22). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to identify the spare capacity by port number in the invention of Shah in view of Brady in order to distinguish between the various links connected to the node.

4. Regarding claims 13 and 17, Shah in view of Brady discloses a message (Shah, Figure 8) including an identification of a node (item 703) and a field indicating that the node is a custodial node (item 703; col. 7, lines 3-6). However, Shah in view of Brady does not disclose that the message contains port numbers. One skilled in the art would recognize that a cross-connect switch typically has port numbers identifying connections to different working paths and spare paths (Shah, col. 5, lines 18-22). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to identify the spare capacity by port number in the invention of Shah in view of Brady in order to distinguish between the various links connected to the node.

Claims 14 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shah et al. in view of Brady et al., as applied to claims 13 or 17 above, in further view of Fisher (US 4,941,089).

5. Regarding claim 14 and 18, Shah in view of Brady discloses a message type field for a packet (shah, Figure 8, item 701). However, Shah in view of Brady does not disclose that the message type field indicates the packet is a continuously exchanged keep-alive packet. Fisher disclose a message type field that indicates a continuously exchanged keep-alive packet (col. 29, lines 28-33; col. 33, lines 23-24). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a message type field to identify a packet as a keep-alive packet in the invention of Shah in view of Brady in order for a receiving node to identify the packet and perform the proper operation on the packet (i.e. allow the status of the link to indicate activity and not a fault or failure).

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Allowable Subject Matter

6. Claims 1, 3-6 and 8-10 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 703-305-0139. The examiner can normally be reached weekdays, except Wednesday, from 9:30 AM to 8:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 703-308-5463. The fax number for Technology Center (TC) 2600 is 703-872-9314.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Customer Service Office for TC 2600 at 703-306-0377.

Kevin C. Harper

July 28, 2003